

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
Revised 12-1-65

Pool Undesignated Pictured Cliffs		Formation Pictured Cliffs		County San Juan	
Initial X	Annual	Special	Date of Test 4-12-66		
Company Tenneco Oil Co.		Lease Shaw		Well No. 1	
Unit	Sec. 22	Twp. 30N	Range 9W	Purchaser	
Casing 3.5	Wt. 7.7	I.D.	Set at 2975	Perf. 2847	To 2378
tubing	Wt.	I.D.	Set at	Perf.	To
Gas Pay:	From	To	L	G .650	GL 1851
				Bar. Press. 12.0	
Producing Through:		X		Type Well - Sing - -- Braden head - G. or G.O. Dual single	
Date of Completion		Packer		Reservoir Temp. 106	

OBSERVED DATA

Desired Throughput		Pressure ☐	Flow ☒	Meter ☐	Type of Tests
FLOW DATA					DURATION OF FLOW HR.
Time	Separator Outlet Size	Pressure psig.	Diff. h _w	Temp. °F.	
1.					
2.	3/4				
3.					
4.					
5.					

FLOW CALCULATIONS

Time	Efficient Q _h (bbl.)	$-\sqrt{P_c - P_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Corr. Press. Factor F _p	Rate of Flow (MCF PD) at 25 psia
1.	12.3650		218	1.000	.9608	1.023	2646
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas-Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 P_w **3.068** (1-e^{-S}) **0.126** P_c **715** P_c² **511225**

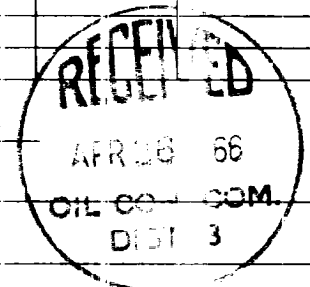
Time	$\frac{P_w}{P_t}$ psia	$\frac{P_c^2}{P_t^2}$	$\frac{F_c Q}{P_c}$	$\frac{(F_c Q)^2}{P_c^2}$	$\frac{(F_c Q)^2}{P_c^2} (1-e^{-S})$	$\frac{P_w^2}{P_c^2}$	$\frac{P_c^2 - P_w^2}{P_c^2}$	$\frac{Q_d}{F_w}$	$\frac{P_w}{P_c}$
1.	218	47524	8.118	65902	8304	55828	455397	236	
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **2919** MCFPD; n **.85** **1.1033**

COMPANY **Tenneco Oil Company** WITNESSED _____

ADDRESS **P. O. Box 1714, Durango, Colorado** COMPANY _____

AGENT AND TITLE **J. E. Massey**
District Production Engineer



Company: **MINOR OIL COMPANY** Lease: **SHAW** 1
 Field: **DESIGNATED PICTURED CLIFFS** County: **SAN JUAN** State: **NEW MEXICO**
 Formation: **PICTURED CLIFFS** Test Date: **APRIL 12, 1966**

Shut in 9 days
 DEPTH PRESSURE GRADIENT
 Feet P.s.i. P.s.i./Ft.

2000	0	703	
	1500	731	0.019
	2462	750	0.020
	2662	754	0.020
	2862 *	758	0.020
1750	*Mid-Term		

PRESSURE POUNDS PER SQUARE INCH GAUGE

1500

Psig

1250

1000

750

500

250

0

500

1000

1500

2000

2500

3000

3500



*2872-78

Elev. 6707 Surface Ft.
 Total Depth 2872-78 * Ft.
 Tubing 2975 Ft.
 Casing 3 1/2 2975 Ft.
 Casing Press. 703 Casing Press.
 Oil Level Date
 Temperature 106 2862 Ft.
 Element No. 15065 Gauge 0-2100
 Last Test Date
 Pressure Last Test Date P.s.i.
 B.H.P. Change P.s.i.